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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/897,776	09/897,776 06/29/2001		Patrick S. Schnable	08411-027001 /ISURF 1907 02424	
26191	7590	04/09/2003			
FISH & RI			EXAMINER		
3300 DAIN RASCHER PLAZA 60 SOUTH SIXTH STREET MINNEAPOLIS, MN 55402				MCKELVEY, TERRY ALAN	
				ART UNIT	PAPER NUMBER
				1636	15
				DATE MAILED: 04/09/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

			1				
•		Application No.	Applicant(s)				
		09/897,776	SCHNABLE ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Terry A. McKelvey	1636				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status							
1)⊠	Responsive to communication(s) filed on 24 J	anuary 2003 .					
2a) <u></u> ☐	This action is FINAL . 2b)⊠ Thi	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
·	on of Claims						
	Claim(s) 1-29 is/are pending in the application.						
	4a) Of the above claim(s) <u>21-25 and 27-29</u> is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
	☑ Claim(s) <u>1-9,14,17-20 and 26</u> is/are rejected. ☑ Claim(s) <u>10-13,15 and 16</u> is/are objected to.						
	Claim(s) are subject to restriction and/or	election requirement					
	on Papers	oloolon roquiromoni.					
9)[The specification is objected to by the Examiner	·.					
10) 🔲 🗆	The drawing(s) filed on is/are: a)□ accep	ted or b) objected to by the	Examiner.				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) 🔲 -	11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.							
12)☐ The oath or declaration is objected to by the Examiner.							
Priority under 35 U.S.C. §§ 119 and 120							
13)	13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:							
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
14)⊠ A	4) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) ☐ The translation of the foreign language provisional application has been received. 15)☑ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.							
Attachment							
2) 🛛 Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Info	nmary (PTO-413) Paper No(s) rmal Patent Application (PTO-152)				

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DETAILED ACTION

Election/Restrictions

Applicant's election with traverse of Group I, claims 1-20 and 26 in Paper No. 14, filed 1/24/03 is acknowledged. traversal is on the ground(s) that it would not be an undue burden to search the method of using the claimed nucleic acids and vectors (Group II) with the nucleic acids and vectors, because similar search terms can be used for both and that the parent application issued with both product and method claims. This is not found persuasive because the two groups are classified in different class/subclasses, which requires different, non-overlapping searches, which is prima facie evidence of burden, which is not refuted by the applicant. search for Group II also requires a search of additional terms which are not required for the search of Group I, and thus would be burdensome to search together in both the patent literature and the non-patent literature. The fact that another examiner voluntarily did not restrict in a similar, parent case does not negate the fact that a proper case for restriction has been made in the instant case.

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The requirement is still deemed proper and is therefore made FINAL.

Claims 21-25 and 27-29 are withdrawn from further consideration pursuant to 37 CFR 1.142(b), as being drawn to a nonelected invention, there being no allowable generic or linking claim. Applicant timely traversed the restriction (election) requirement in Paper No. 14.

Information Disclosure Statement

The information disclosure statement filed 12/8/01, with regard to references AF-AI only) fails to comply with the provisions of 37 CFR 1.97, 1.98 and MPEP § 609 because the references have incomplete citations, e.g., no date is listed and no author is listed in the PTO-1449 form. It has been placed in the application file, but the information referred to therein (references AF-AI only) has not been considered as to the merits. Applicant is advised that the date of any resubmission of any item of information contained in this information disclosure statement or the submission of any missing element(s) will be the date of submission for purposes of determining compliance with the requirements based on the time of filing the statement, including all certification

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requirements for statements under 37 CFR 1.97(e). See MPEP \$ 609 \P C(1).

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 17 is rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The application discloses and claims pHis6 that is encompassed by the definitions for biological material set forth in 37 C.F.R. § 1.801. Because it is apparent that this biological material is essential for practicing the claimed invention, it must be obtainable by a reproducible method set forth in the specification or otherwise be known and readily

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available to the public as detailed in 37 C.F.R. §§ 1.801 through 1.809.

It is unclear whether this biological material is known and readily available to the public or that the written instructions are sufficient to reproducibly construct this biological material from starting materials known and readily available to the public. Accordingly, availability of such biological material is deemed necessary to satisfy the enablement provisions of 35 U.S.C. § 112. If this biological material is not obtainable or available, the requirements of 35 U.S.C. § 112 may be satisfied by a deposit of the biological material. order for a deposit to meet all criteria set forth in 37 C.F.R. §§ 1.801-1.809, applicants or assignee must provide assurance of compliance with provisions of 37 C.F.R. §§ 1.801-1.809, in the form of a declaration or applicant's representative must provide a statement. The content of such a declaration or statement is suggested by the enclosed attachment. Because such deposit will not have been made prior to the effective filing date of the instant application, applicant is required to submit a verified statement from a person in a position to corroborate the fact, which states that the biological material which has been deposited is the biological material specifically identified in

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the application as filed (37 C.F.R. § 1.804). Such a statement need not be verified if the person is an agent or attorney registered to practice before the Office. Applicant is also reminded that the specification must contain reference to the deposit, including deposit (accession) number, date of deposit, name and address of the depository, and the complete taxonomic description.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-9, 14, 18-20, and 26 are rejected under 35

U.S.C. 102(e) as being anticipated by Amasino et al (U.S. Patent

No. 6,359,197 B1) as evidenced by Tomich et al (U.S. Patent No.
5,268,284).

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Amasino et al teach an isolated nucleic acid comprising the SAG12 promoter (and, because it is double-stranded, it comprises its complement), which isolated nucleic acid comprises SEQ ID NO:18 (which has three ATG start codons, in three different reading frames). See the highlighted section of Figure 3; also see Figures 1-2 and columns 2-3. This reference also teaches a vector comprising the nucleic acid, a prokaryotic and a eukaryotic cell such as a plant cell, bacterial cell, etc comprising the vector (columns 6 and 11).

Regarding claims 5 and 14 only, drawn to the nucleic acid and vector further comprising a ribosome-binding site upstream of the start codons, Amasino et al teach a nucleic acid which meets that claim limitation for the following reasons.

Tomich et al is cited only as evidence to show that the nucleic acid and vector taught by Amasino et al inherently comprises a sequence 5' of the codons which qualifies as a ribosome-binding site, even though it is not recognized as such by the Amasino et al reference. Tomich et al teach that the ribosome binding site is known to function best if it contains certain bases but there is no known requirement for any particular base in a particular site and that it is preferred to be A-T rich (column 1).

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The nucleic acid taught by Amasino et al comprises at least two nucleic acid sequences 5' of start codons, which because they are A-T rich, would qualify as a ribosome binding site sequence, even though there is no evidence that this particular is translated into RNA, because "ribosome binding site" also encompasses the DNA which encodes a sequence which can act as a ribosome binding site when expressed as RNA. See the underlined portion of Figure 3 of Amasino et al. Although it may not be precisely an optimal ribosome binding site, based upon its A-T rich nature, it inherently acts as a ribosome binding site for at least a minimal function.

Allowable Subject Matter

Claims 10-13 and 15-16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

Claims 10-13 and 15-16 are drawn to nucleic acid vectors that comprise both three start codons in all three open reading

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frames and histidine tags in all three reading frames. The closest prior art is Amasino et al. Although Amasino et al teaches a nucleic acid containing three ATG start codons in all three open reading frames, the reference by itself or with any other prior art, fails to teach or make obvious adding three histidine tags in three open reading frames to the specific nucleic acid taught by Amasino et al.

Conclusion

No claims are allowed.

Certain papers related to this application may be submitted to Art Unit 1636 by facsimile transmission. The faxing of such papers must conform with the notices published in the Official Gazette, 1156 OG 61 (November 16, 1993) and 1157 OG 94 (December 28, 1993) (see 37 C.F.R. § 1.6(d)). The official fax telephone numbers for the Group are (703) 308-4242 and (703) 305-3014.

NOTE: If Applicant does submit a paper by fax, the original signed copy should be retained by applicant or applicant's representative. NO DUPLICATE COPIES SHOULD BE SUBMITTED so as to avoid the processing of duplicate papers in the Office.

Any inquiry concerning rejections or other major issues in this communication or earlier communications from the examiner should be directed to Terry A. McKelvey whose telephone number is (703) 305-7213. The examiner can normally be reached on Monday through Friday, except for Wednesdays, from about 7:30 AM to about 6:00 PM. A phone message left at this number will be

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responded to as soon as possible (i.e., shortly after the examiner returns to his office).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Remy Yucel can be reached on (703) 305-1998.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Terry A. McKelvey, Ph.D.

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Primary Examiner
Art Unit 1636

Jen a Welet

April 6, 2003

Application/Control Number: 09/897,776 Page 🞾 Art Unit: 1636 SUGGESTION FOR DEPOSIT OF BIOLOGICAL MATERIAL ATTACHMENT A declaration by applicant or assignee, or a statement by applicant's agent identifying a deposit of biological material and averring the following may be sufficient to overcome an objection or rejection based on a lack of availability of biological material. Such a declaration: 1. Identifies declarant. States that a deposit of the material has been made in a depository 2. affording permanence of the deposit and ready accessibility thereto by the public if a patent is granted. The depository is to be identified by name and address. (See 37 C.F.R. § 1.803). States that the deposited material has been accorded a specific 3. (recited) accession number.

- 4. States that all restrictions on the availability to the public of the material so deposited will be irrevocably removed upon the granting of the patent. (See 37 C.F.R. § 1.808(a)(2)).
- 5. States that the material has been deposited under conditions that assure that access to the material will be available during the pendency of the patent application to one determined by the Commissioner to be entitled thereto under 37 C.F.R. § 1.14 and 35 U.S.C. § 122. (See 37 C.F.R. § 1.808(a)(1)).
- 6. States that the deposited material will be maintained with all the care necessary to keep it viable and uncontaminated for a period of at least five years after the most recent request for the furnishing of a sample of the deposited microorganism, and in any case, for a period of at least thirty (30) years after the date of deposit or for the enforceable life of the patent, whichever period is longer. See 37 C.F.R. § 1.806).
- 7. That he/she declares further that all statements made therein of his/her own knowledge are true and that all statements made on information and belief are believed to be true; and further, that these statements were made with knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the instant patent application or any patent issuing thereon.

Alternatively, it may be averred that deposited material has been accepted for deposit under the Budapest Treaty on the International Recognition of the Deposit of Microorganisms for the Purposes of Patent Procedure (e.g., see 961 OG 21, 1977) and that all restrictions on the availability to the public of the material so deposited will be irrevocably removed upon the granting of a patent.

Additionally, the deposit must be referred to in the body of the specification and be identified by deposit (accession) number, date of deposit, name and address of the depository, and the complete taxonomic description.